

**Listing of Claims:**

Claims 1-10 (Canceled).

11. (Currently Amended) A sample chip analyzing device comprising:

a waveguide plate which entirely reflects and ~~guides wave-~~  
guides incident light, and which includes a surface on which a  
5 number of sampling probes are fixed, the sampling probes being  
coupled ~~that are connectable~~ to samples to be analyzed that are  
labeled with a fluorescent substance;

a light source, provided in a light-shielding box having an  
opening into which an end portion of the waveguide plate is  
10 inserted in a light-shielded state, for ~~irradiating~~ introducing  
fluorescent ~~pumping~~ excitation light ~~onto an end face of~~ into the  
waveguide plate through the end portion of the waveguide plate  
inserted into the light-shielding box; and

a pickup member for picking up an image of substantially an  
15 entire surface of the waveguide plate, and outputting picked-up  
data of fluorescence;

wherein the fluorescent substance labeled on the samples  
coupled to the probes is excited ~~to be analyzed are labeled with~~  
~~fluorescent substances that are fluorescence pumped~~ by an  
20 evanescent wave ~~which occurs when~~ generated when the waveguide

plate wave-guides the fluorescent ~~pumping~~ excitation light from the light source ~~is irradiated onto the end face of the end portion of the waveguide plate and enters~~ into an interior of the waveguide plate, and to be entirely reflects the fluorescent  
25 excitation light ~~reflected and guided~~; and

wherein the samples are analyzed by detecting respective ones of the sampling probes that are coupled to ~~the fluorescence pumped fluorescent substances of~~ the labeled samples, based on the picked-up data of fluorescence outputted by the pickup  
30 member.

12. (Previously Presented) The sample chip analyzing device according to claim 11, wherein the waveguide plate comprises a glass substrate.

13. (Previously Presented) The sample chip analyzing device according to claim 11, wherein the waveguide plate comprises a pair of spaced apart insulation reflection plates arranged opposite to each other.